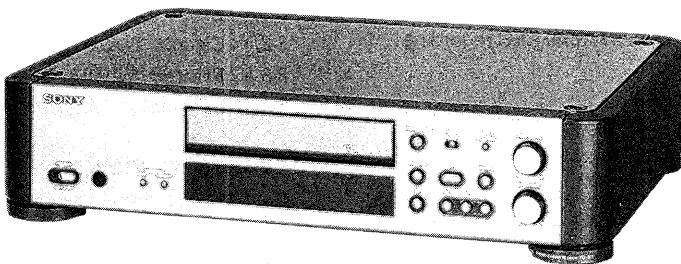


TC-S7

SERVICE MANUAL

*US Model
Canadian Model
AEP Model
UK Model*



Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	TCM-200V30

SPECIFICATIONS

Recording system 4-track 2-channel stereo

Fast-forward and rewind time

Approx. 90 sec. (with C-60 cassette)

Bias AC Bias

Signal-to-noise ratio (NAB, at peak level)

Cassette	Dolby NR switch	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METAL-ES)		60 dB	69 dB	75 dB
TYPE II (Sony UX-S)		59 dB	68 dB	74 dB
TYPE I (Sony HF-S)		57 dB	66 dB	72 dB

Total harmonic distortion

1.0% (with Sony METAL-ES cassettes)

Frequency response (DOLBY NR OFF)

TYPE IV cassette (Sony METAL-ES)	20 – 20,000 Hz (± 3 dB, IEC) 20 – 16,000 Hz (± 3 dB, 0 VU (-4 dB) recording)
TYPE II cassette (Sony UX-S)	20 – 18,000 Hz (± 3 dB, IEC)
TYPE I cassette (Sony HF-S)	20 – 17,000 Hz (± 3 dB, IEC)

Wow and flutter ± 0.09 % W.Peak (IEC)
 0.05 % WRMS (NAB)
 ± 0.14 % W.Peak (DIN)

Inputs

Line inputs (phono jacks)	Sensitivity	77.5 mV
	Input impedance	47 k ohms

Outputs

Line outputs (phono jacks)	Rated output level	0.32 V at a load impedance 47 k ohms
	Load impedance	Over 10 k ohms

General

Power requirements

Model for Continental Europe

220 – 230 V AC, 50/60 Hz

Model for the United Kingdom

240 V AC, 50/60 Hz

— Continued on page 2 —

STEREO CASSETTE DECK
SONY®

Power consumption	17 watts
Dimensions	Approx. 430 × 95 × 360 mm (17 × 3 3/4 × 14 1/4 inches) (w/h/d) including projecting parts and controls
Weight	Approx. 5.8 kg (12 lb 13 oz)

Supplied accessory	Audio connecting cord (2)
---------------------------	---------------------------

Design and specifications subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 2

ADJUSTMENTS

1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :

record/playback head	pinch roller
erase head	rubber belts
capstan	idler
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustment
4. After the adjustments, apply suitable locking compound to the parts adjusted.

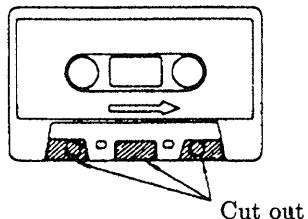
Tape Path Adjustment

Note : When using the adjustment methods for other than replacement reasons, please do not tamper unnecessarily with the adjustment screws or the erasehead because the record/playback head will be made the standard tape paths. Moreover, when it is necessary to adjust and replace two or more of any of the heads one, completely taking out the first tape path, and then replacing the second one.

Preparation :

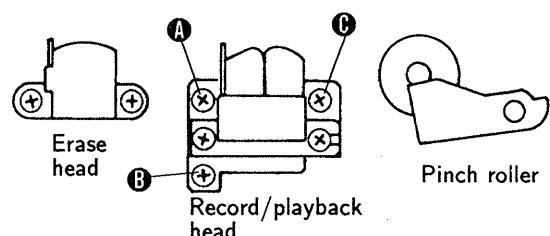
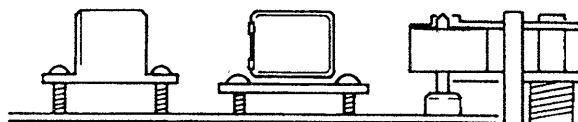
1. Mirror cassette CQ009C 8-909-708-01
(or CQ012C 8-909-708-02)

If one does not have this, cut out the sections of a 120-minute cassette shell as indicated below and use that cassette.

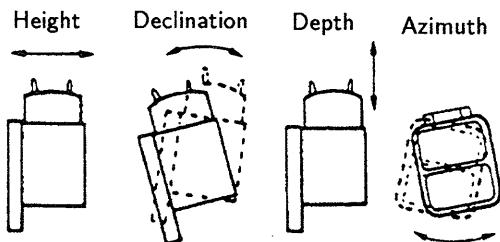


2. Phillips screwdriver (medium-size) :
For the head adjustment screws
3. Pen light
4. WS-48B (3kHz, 0dB)
5. P-4-A100 (10kHz, -10dB)

Adjustment Position : As seen from the cassette, side (top) and MD as seen head on (bottom).



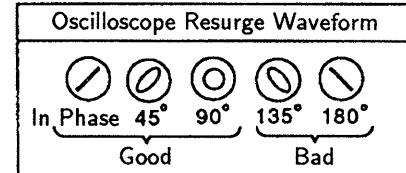
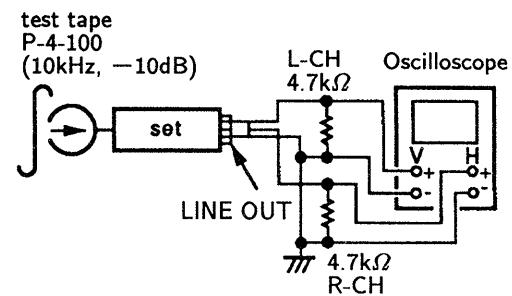
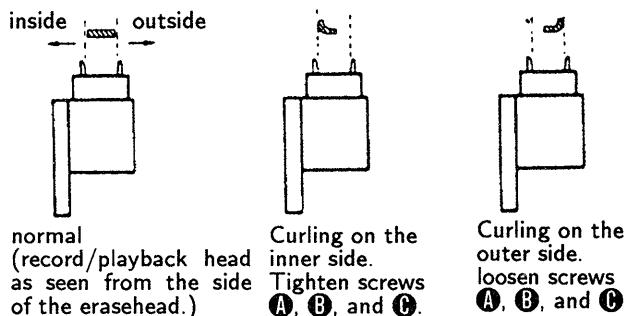
Definition of Terms : The figures are of a record/playback head.



Record/playback head

Note : Only perform this adjustment when the record/playback head is to be replaced.

1. Insert the mirror cassette and put the unit in record/playback mode.
2. **(Height Adjustment)** Check to see if the tape is curling at the tape guide of the head. If it is curling, tighten screws **A**, **B**, and **C**, respectively by the same angle, moving the head so that it remains at the same angle throughout the procedure. If it curls on the bottom side of the mirror cassette (actually the inner side), tighten all the screws equally ; but loosen them if the tape begins to curl on the top side (outer side).



3. **(Declination Adjustment)** While in the record/playback position, set the back tension to 0 (wind the supply reel with something thin like a pencil counterclockwise direction) and make sure there is no curling or shifting (shifting up/shifting down) at the guide of the record/playback head. Because shifting can only occur due to a difference in the width of the tape and that of the tape guides (curling will otherwise occur), it is necessary to pay close attention since it can be easily overlooked.

When there is a shift, tighten screws **B** and **C** equally and change the declination of the head. If it is shifting down, loosen them.

4. Repeat the adjustments in steps 2 and 3 and fine adjust the height and the declination.

5. **(Preliminary Azimuth Adjustment)**

After demagnetizing and cleaning the adjustment head, play back WS-48B (3kHz, 0dB).

Turn screw **D** so that the reading on the level meter of the unit or that of the level meter connected to LINE OUT is maximized.

If the screw is turned at least half a revolution, repeat the adjustment from step 1.

6. **(Tape Path Check)** Connect the oscilloscope to LINE OUT and play back P-4-A100 (10kHz, -10dB) to display a resurge waveform. After 20 seconds of record/playback (after the tension within the loop has been increased sufficiently), make sure the variation in the resurge is within ± 90 degrees (within ± 45 degrees is desired).

If the variation is greater than this, it is because the declination and/or the height adjustments from step 1.

TORQUE MEASUREMENT

Torque	Torque meter	Meter reading
FWD	CQ-102C	28 - 60g.cm (0.39 - 0.83oz. inch)
FWD Back tension	CQ-102C	1 - 5g.cm (0.014 - 0.069oz. inch)
FF, REW	CQ-201B	65 - 90g.cm (0.9 - 1.25oz.inch)

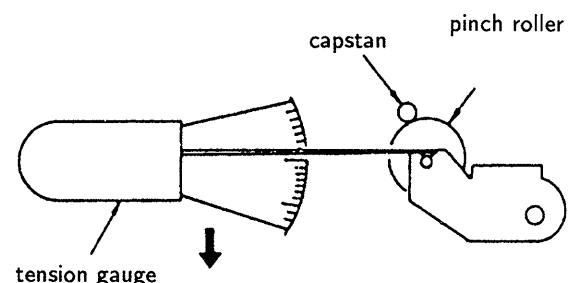
Pinch Roller Pressing Force Measurement

Mode : playback

Hook needle of the tension gauge to the pinch roller shaft and push back pinch roller to detach it from capstan. Then, return it gradually to capstan and read the gauge when the pinch roller begins turning.

Standard Limits :

210 - 320g (7.4 - 11.3oz)



2. ELECTRICAL ADJUSTMENT

Note : The adjustment should be performed in the order given in the service manual. As a rule, adjustments about playback should be performed before those about recording.

The adjustment should be performed before for both L-CH and R-CH.

Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch : OFF

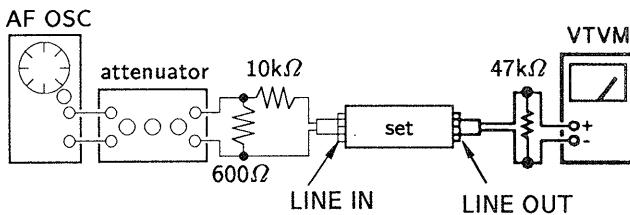
MPX FILTER switch : OFF

TAPE/SOURCE switch : Tape

Standard Record :

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

— Record Mode —



Standard Input Level

input terminal	LINE IN
source impedance	10kΩ
input level	0.25V (-10dB)

Standard Output Level

output terminal	LINE OUT
load impedance	47kΩ
output level	0.35V (-7.7dB)

Test Tape

Type	Signal	Used for
P-4-A100	10kHz, -0dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

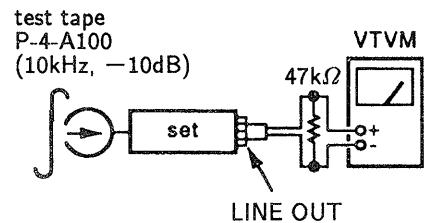
Test Mode

This set will get into test mode by shorting the pins of TP803 on Audio system control board before turning the power on.

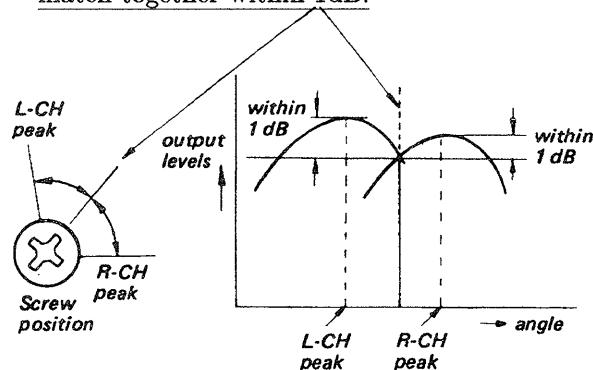
Record/Playback Head Azimuth Adjustment

Procedure :

1. Mode : FWD playback

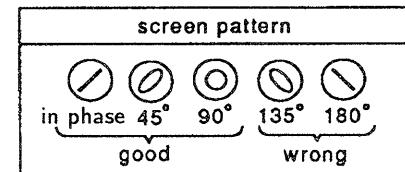
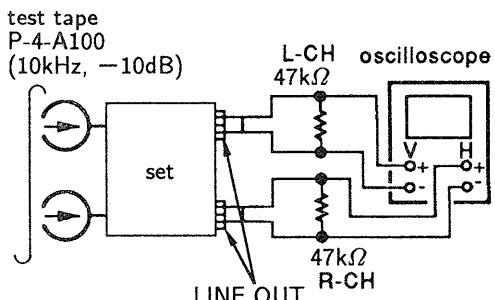


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both output levels match together within 1dB.



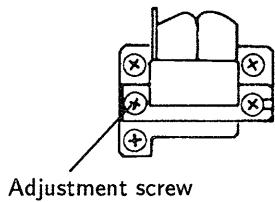
3. Phase Check

Mode : playback



4. After the adjustment, lock the screws with locking compound.

Adjustment Location : Record/Playback head



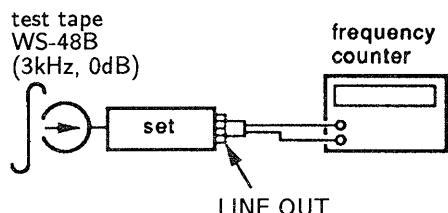
Tape Speed Adjustment

Setting :

Test pin TP803 short

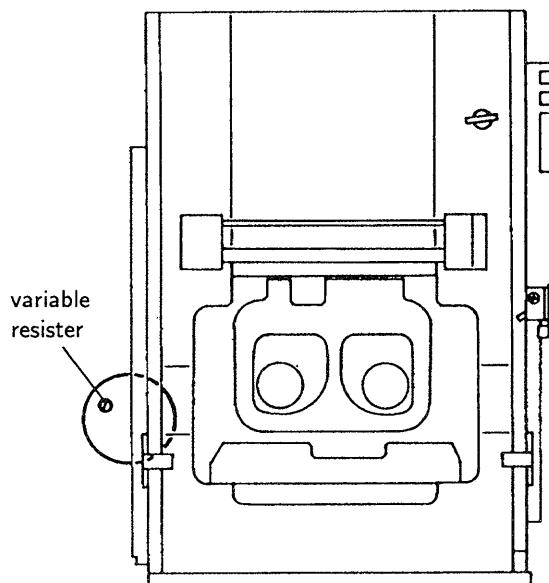
Procedure :

Mode : playback



1. Set to playback mode.
2. Adjust motor rear side (variable resistor) so that the frequency counter reading becomes $3,000 \pm 15\text{Hz}$.

Adjustment Location : motor rear side.

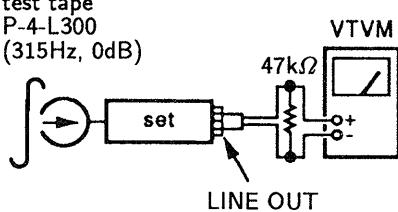


Playback Level Adjustment

Procedure :

Mode : playback

test tape
P-4-L300
(315Hz, 0dB)



Adjust RV121 (L-ch) and RV221 (R-ch) so that the reading on VTVM meets the adjustment limits below.

Adjustment Limits :

LINE OUT level : $-7.7 \pm 0.5\text{dB}$ (0.33 - 0.37V)

Level difference between channels : less than 0.5dB.

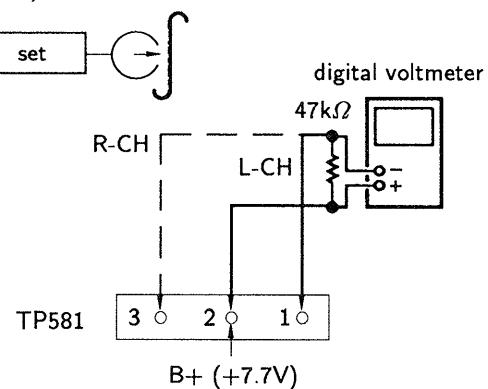
Check that the LINE OUT level does not change even if Playback and Stop operation is repeated several times.

Adjustment Location : Audio system control board

Bias Consumption current Adjustment

Procedure :

LINE IN
(no signal) CS-413 blank tape



1. Set RV181 and RV281 to mechanical center and turn the set recording mode.
2. Connect digital voltmeter as shown by the following table.
3. Adjust the following transformers for the minimum readings on the digital voltmeter.

	Measurement Point	Adjustment Part	Value
L-ch	① and ②, TP581	T181	not more than
R-ch	③ and ②, TP581	T281	200mV

Adjustment Location : Audio system control board

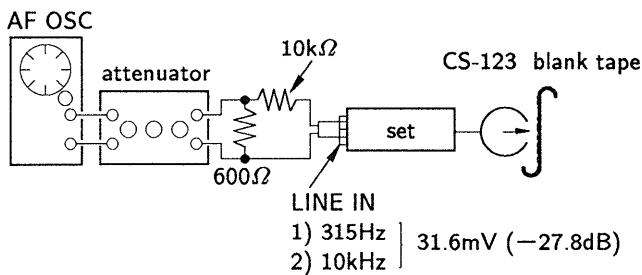
Record Bias Adjustment

Setting :

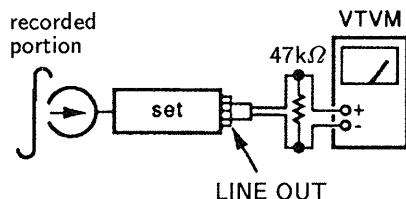
REC LEVEL control : Standard Record (see page)
test pin TP803 : short

Procedure :

1. Mode : record



1. Mode : playback



Playback the signal recorded in step 1.

Confirm that the 10kHz playback output is 0 ± 0.5 dB relative to the 315Hz output. If necessary, adjust RV181 (L-ch) and RV281 (R-ch) for repeat the steps given above.

Adjustment Location : Audio system control board

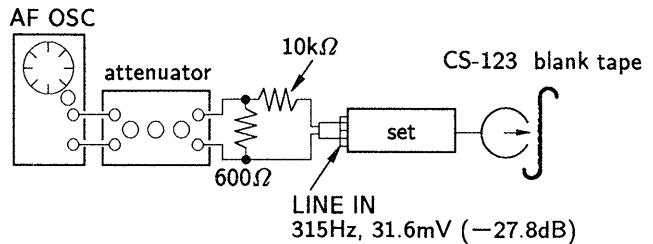
Record Level Adjustment

Setting :

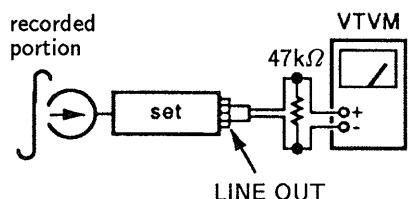
REC LEVEL control : Standard Record (see page)
test pin TP803 : short

Procedure :

1. Mode : record



2. Mode : playback



3. Playback the signal recorded in step 1.

Confirm that the signal level is within the adjustment limits below. If necessary, adjust RV141 (L-ch) and RV241 (R-ch) repeat the step 1

2.

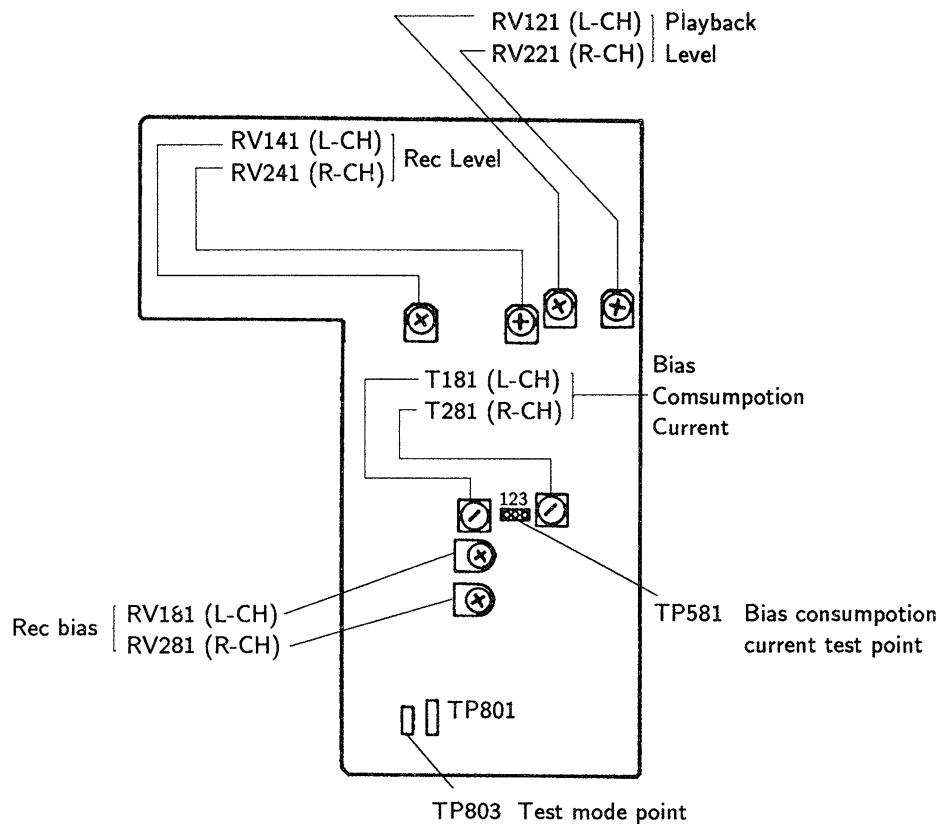
Adjustment Limits :

$-27.8dB \pm 0.5dB$ (29 to 33.4mV)

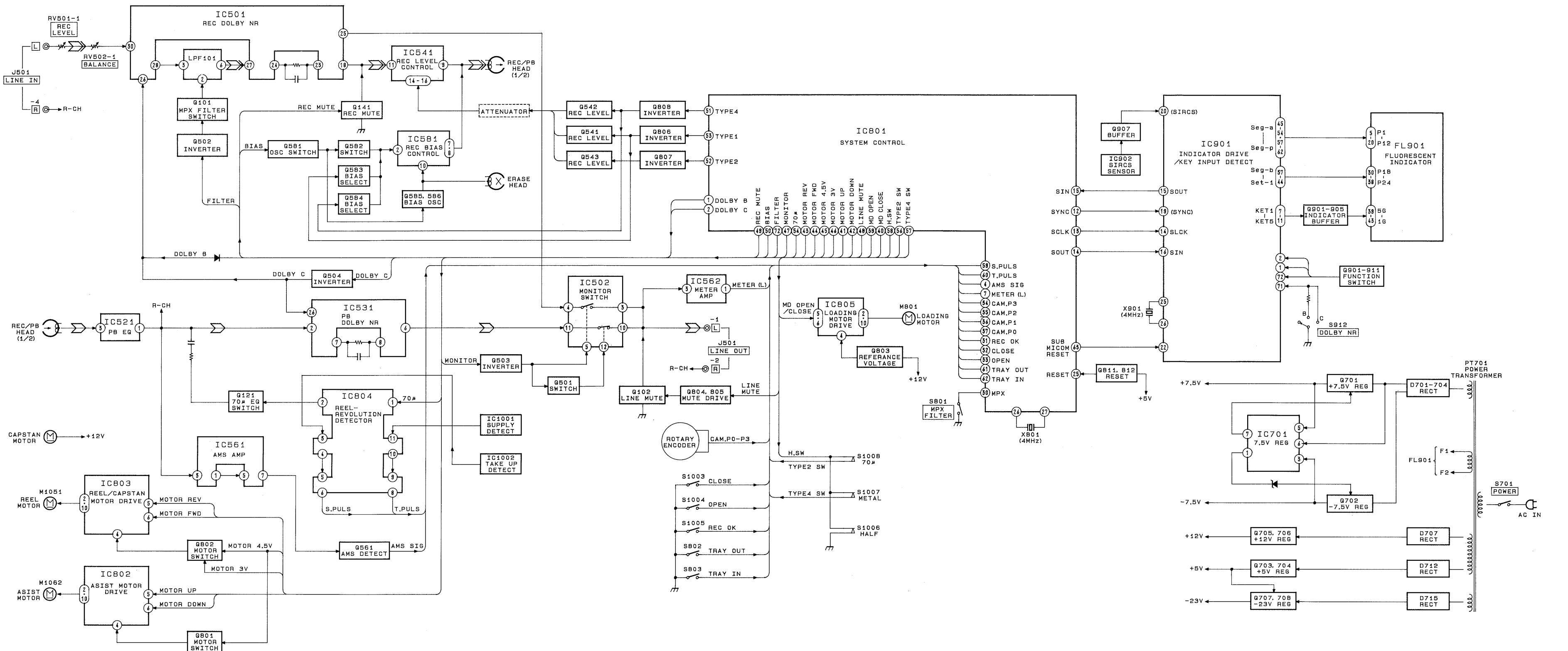
Adjustment Location : Audio system control board

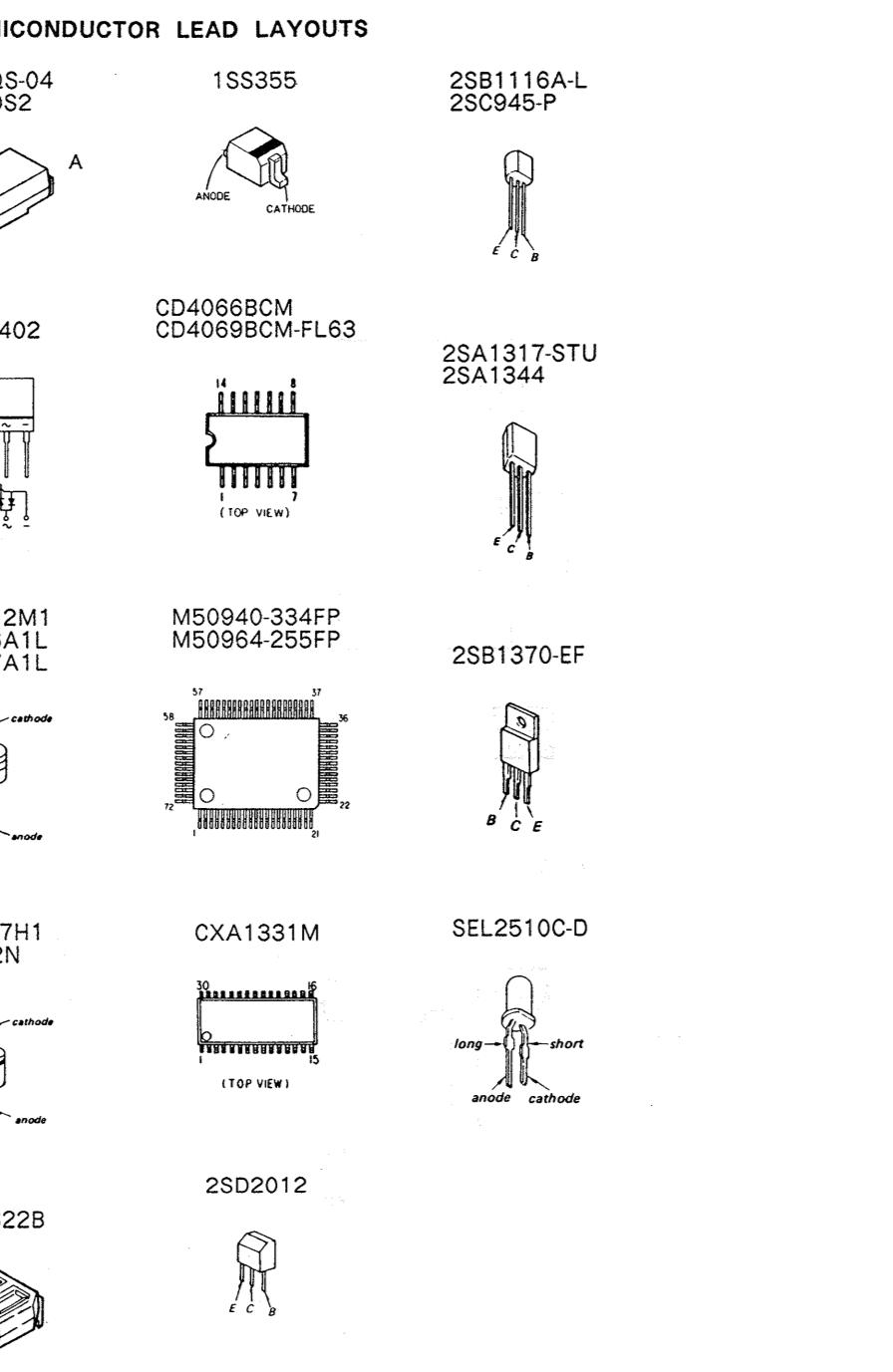
Adjustment Location

— Audio system control board (component side) —



SECTION 3





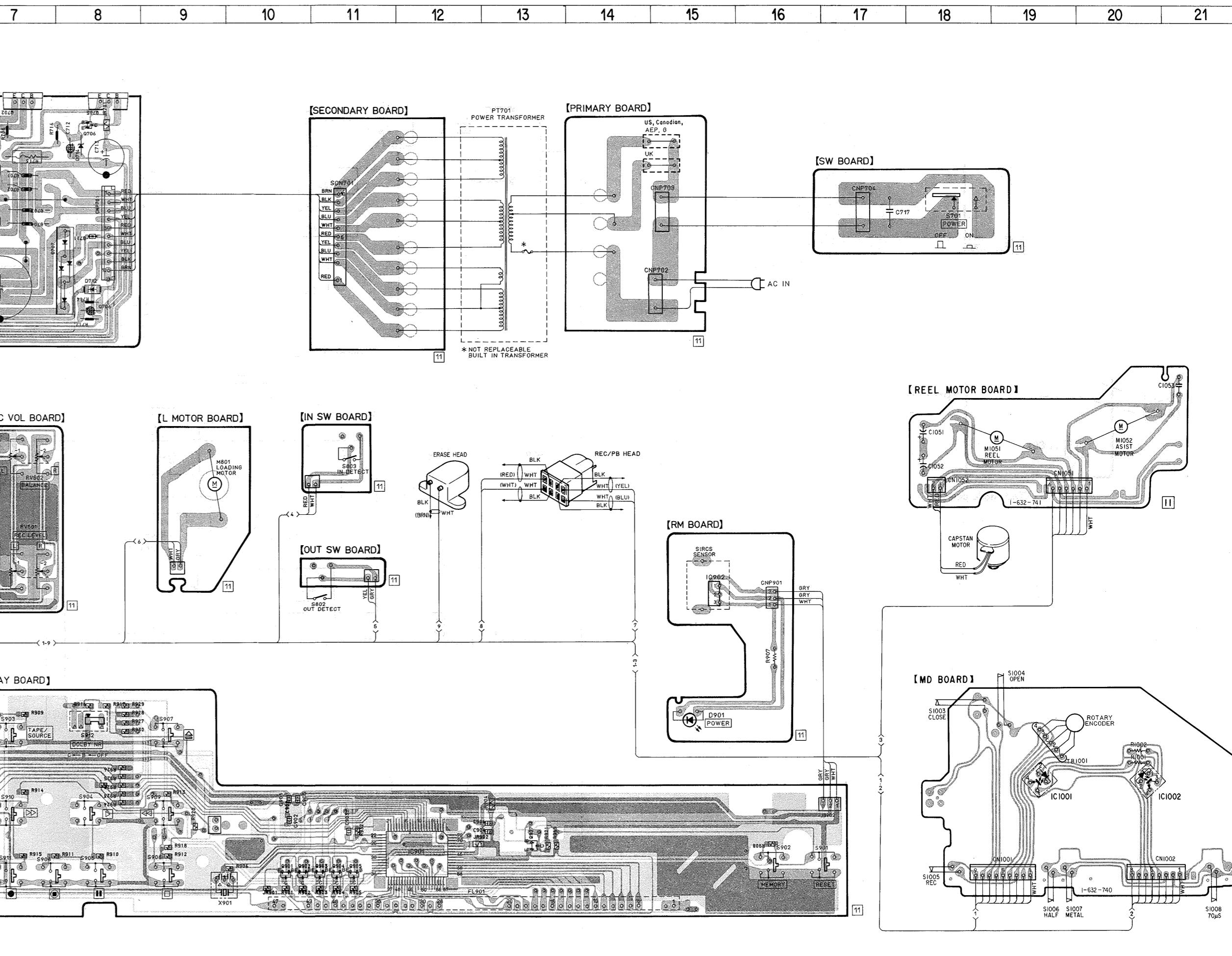
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D161	F-5	Q101	B-4
D261	F-4	Q102	B-3
D501	J-3	Q121	E-2
D541	G-4	Q141	F-3
D542	G-4	Q201	B-3
D543	G-4	Q202	B-3
D544	D-4	Q221	E-1
D561	F-4	Q241	E-3
D582	H-1	Q501	B-1
D583	G-4	Q502	B-2
D584	H-4	Q503	B-2
D701	B-7	Q504	B-2
D702	B-7	Q541	G-4
D703	C-7	Q542	G-4
D704	C-7	Q543	G-4
D705	B-5	Q561	F-4
D706	B-7	Q581	H-2
D707	C-8	Q582	H-2
D711	C-8	Q583	G-4
D712	D-8	Q584	H-4
D713	C-5	Q585	G-2
D714	B-8	Q586	G-2
D715	D-6	Q701	A-6
D716	D-6	Q702	A-7
D717	D-6	Q703	C-6
D801	H-4	Q704	B-6
D802	I-5	Q705	A-8
D803	I-5	Q706	B-8
D805	K-1	Q707	D-5
D806	G-5	Q708	D-6
D807	G-5	Q801	G-4
D901	I-15	Q802	H-5
IC1001	I-19	Q803	J-5
IC1002	I-20	Q804	K-2
IC501	C-3	Q806	K-2
IC502	B-2	Q807	K-2
IC521	F-2	Q808	K-2
IC531	D-2	Q811	I-1
IC541	F-3	Q812	I-1
IC561	F-5	Q901	J-10
IC562	F-5	Q902	J-10
IC581	H-3	Q903	J-11
IC701	B-5	Q904	J-11
IC801	J-2	Q905	J-11
IC802	G-5	Q906	J-11
IC803	I-5	Q907	J-13
IC804	I-4		
IC805	J-5		
IC901	J-12		
IC902	G-15		

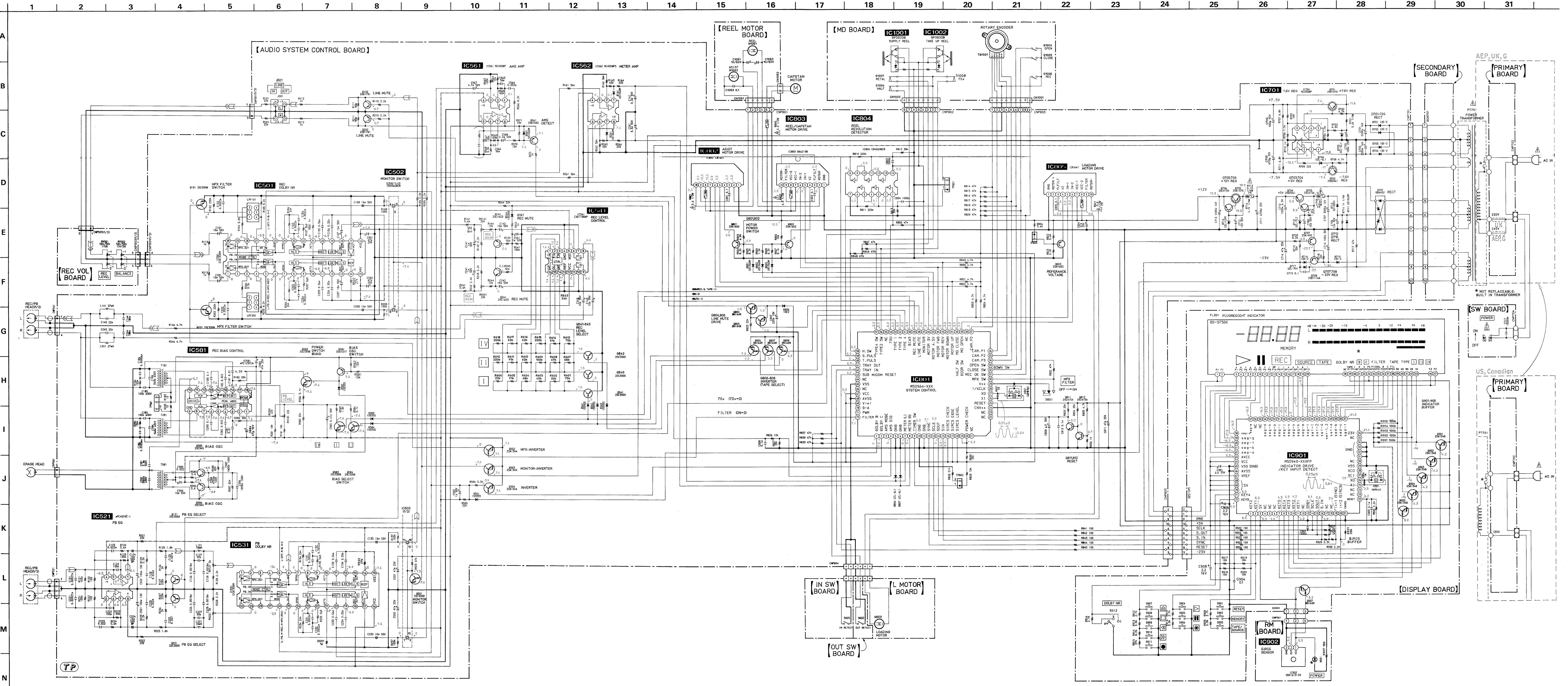
Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : parts mounted on the conductor side.
- : indicates side identified with part number.
- ▨ : Pattern on the side which is seen.
- ▨▨ : Pattern of the rear side.
- : Through hole.

3-3. PRINTED WIRING BOARDS



3-4. SCHEMATIC DIAGRAM



SECTION 4 EXPLODED VIEWS

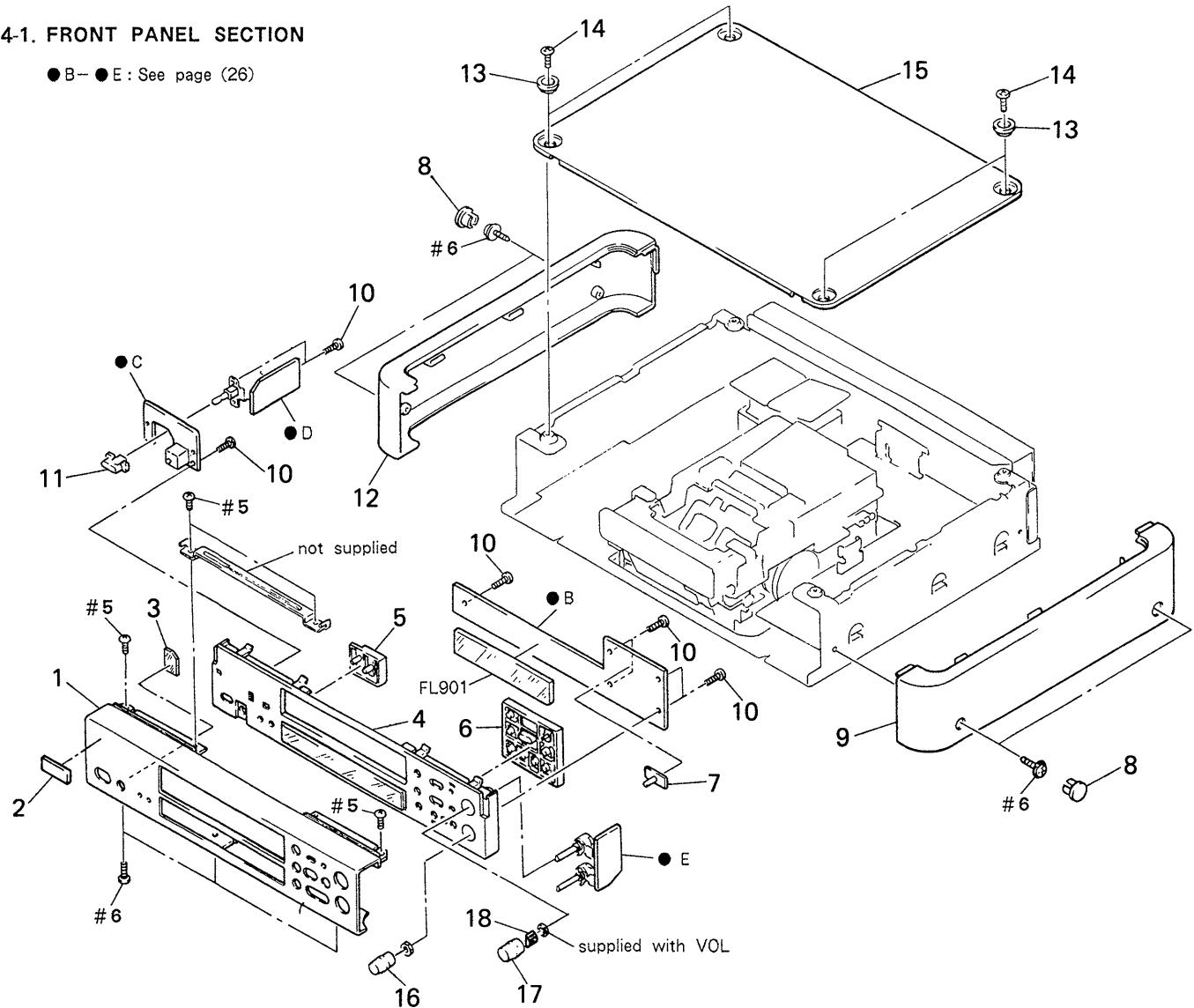
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE)...(RED)
↑
Parts color Cabinet's color

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

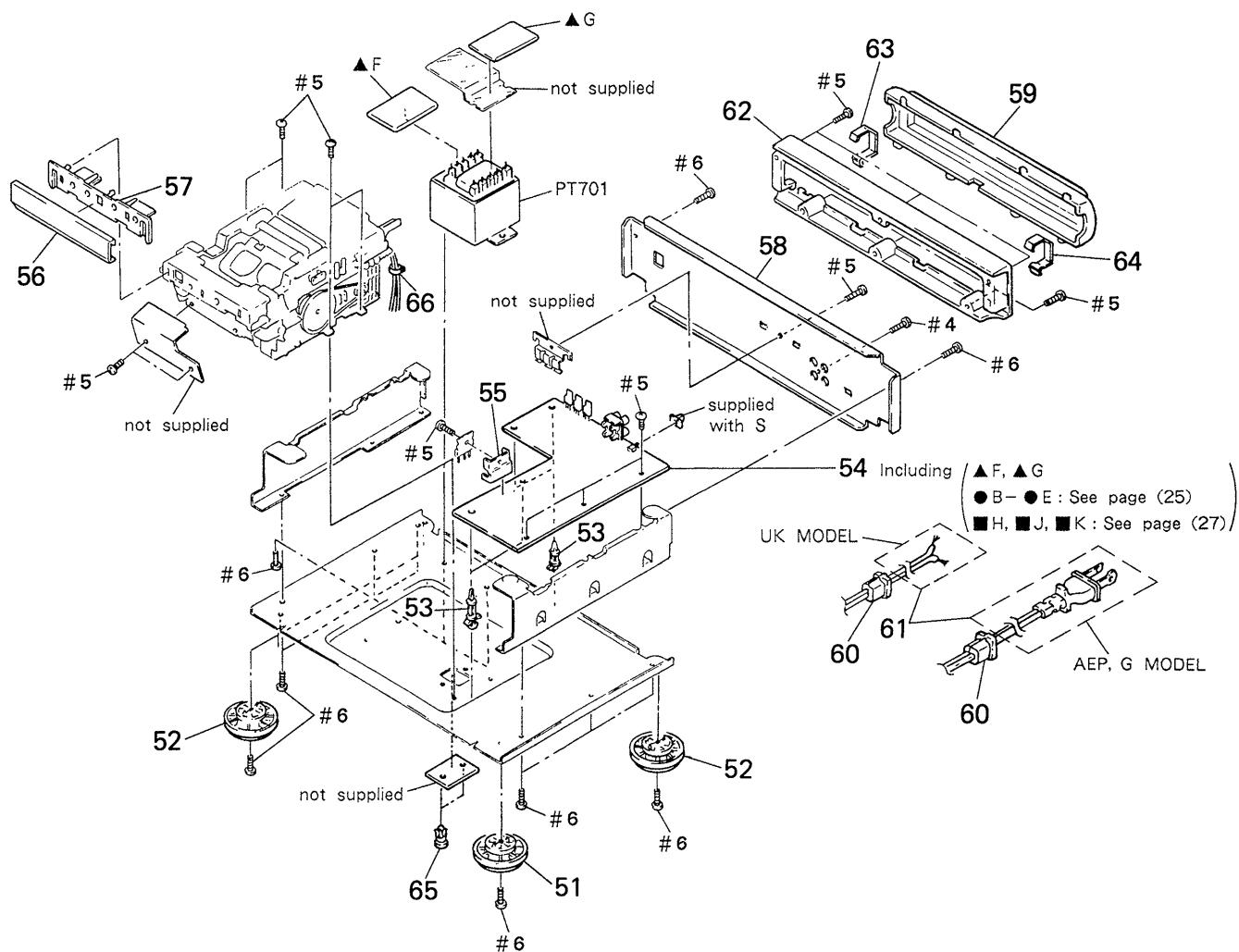
4.1. FRONT PANEL SECTION

● B - ● E: See page (26)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-371-602-01	PANEL, FRONT		11	4-946-889-01	BUTTON (POWER)	
2	4-946-905-01	EMBLEM (NO. 4.5), SONY		12	4-946-890-01	PANEL (L), SIDE	
3	4-946-888-01	WINDOW (REMOTE CONTROL)		13	4-928-025-11	ESCUtCHEON (TOP PLATE)	
4	X-3363-552-1	PANEL (BASE) ASSY		14	3-721-187-01	SCREW (3X8)	
5	3-371-599-01	BUTTON (COUNTER)		15	* 4-946-439-11	PLATE, TOP	
6	3-371-600-01	BUTTON (BLOCK)		16	3-371-591-11	KNOB (ROUND 18)	
7	3-371-595-01	KNOB (DOLBY)		17	3-371-591-01	KNOB (ROUND 18)	
8	4-946-893-01	CAP (SIDE PANEL)		18	3-703-466-00	SPRING (6600)	
9	4-946-891-01	PANEL (R), SIDE		FL901	1-519-680-11	INDICATOR TUBE, FLUORESCENT	
10	4-928-635-01	SCREW, +BV (2.6X8) TAPPING					

4-2. REAR PANEL SECTION

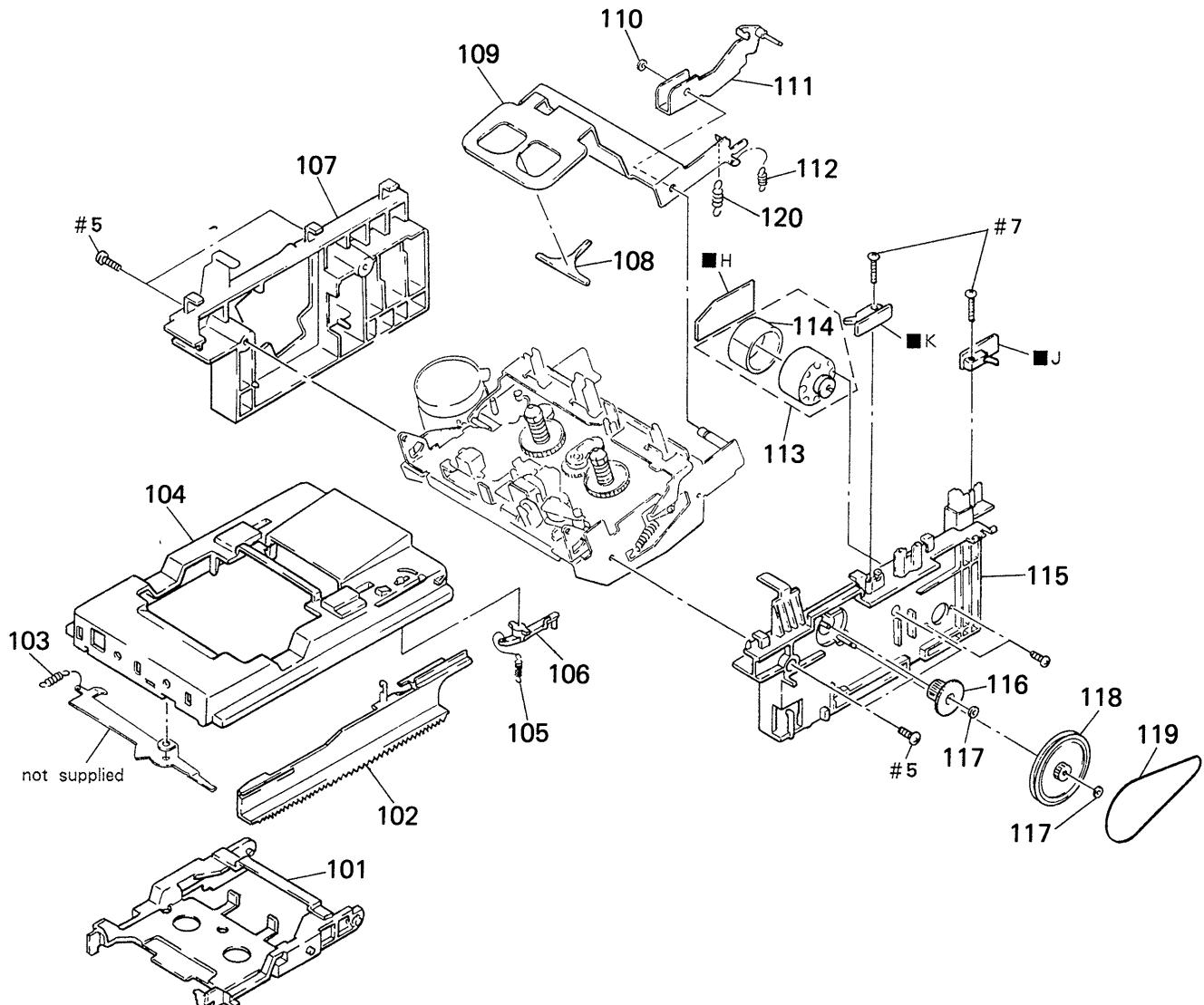


Note: The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3363-549-1	FOOT ASSY		59	4-946-444-01	COVER, REAR	
52	X-3363-548-1	FOOT ASSY		60	* 3-703-244-00	BUSHING (2104), CORD	
53	* 3-346-265-11	HOLDER, PC BOARD		61	▲ 1-558-946-21	CORD, POWER (UK)	
54	* A-2006-578-A	AUDIO SYSCON BOARD, COMPLETE		61	▲ 1-575-651-21	CORD, POWER (AEP, G)	
55	* 3-356-925-01	HEAT SINK		61	▲ 1-590-836-11	CORD, POWER (US, Canadian)	
56	3-371-598-01	PANEL, LOADING		62	* 4-946-443-01	MOLD, REAR	
57	3-371-597-01	ESCUTCHEON (LOADING PANEL)		63	4-946-447-01	HOLDER (L)	
58	* 3-370-076-11	PANEL, BACK (UK)		64	4-946-448-01	HOLDER (R)	
58	* 3-370-076-21	PANEL, BACK (AEP, G)		65	3-531-576-01	RIVET	
58	* 3-370-076-31	PANEL, BACK (AEP)		66	3-655-653-21	BAND (TAITON), BINDING	
58	* 3-370-076-01	PANEL, BACK (US, Canadian)		PT701	▲ 1-450-631-11	TRANSFORMER, POWER (AEP, UK, G)	
				PT701	▲ 1-450-630-11	TRANSFORMER, POWER (US, Canadian)	

4-3. MECHANISM SECTION (1)

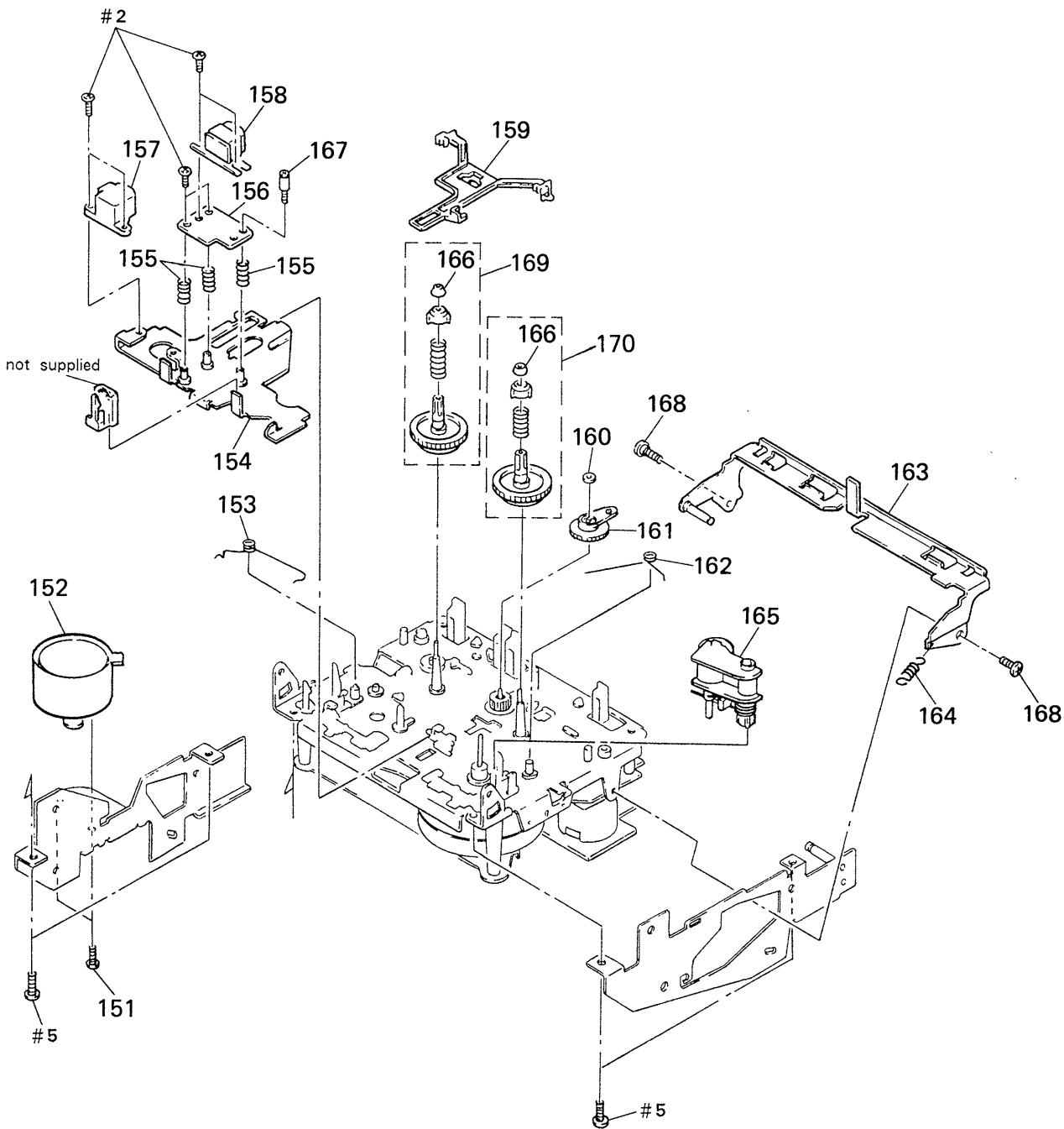
■ H, ■ J, ■ K : See page (26)



Ref. No.	Part No.	Description	Remark
101	3-371-624-01	RETAINER	
102	3-371-625-01	RACK	
103	3-371-628-01	SPRING (RETAINER), TENSION	
104	3-371-623-01	TRAY	
105	3-371-629-01	SPRING (LOCK LEVER), TENSION	
106	3-371-626-01	LEVER (LOCK)	
107	3-371-615-01	GUIDE (L)	
108	3-371-622-01	CUSHION (STABILIZER)	
109	* 3-371-621-01	LEVER (HALF RETAINER)	
110	3-696-510-01	WASHER (3), STOPPER	

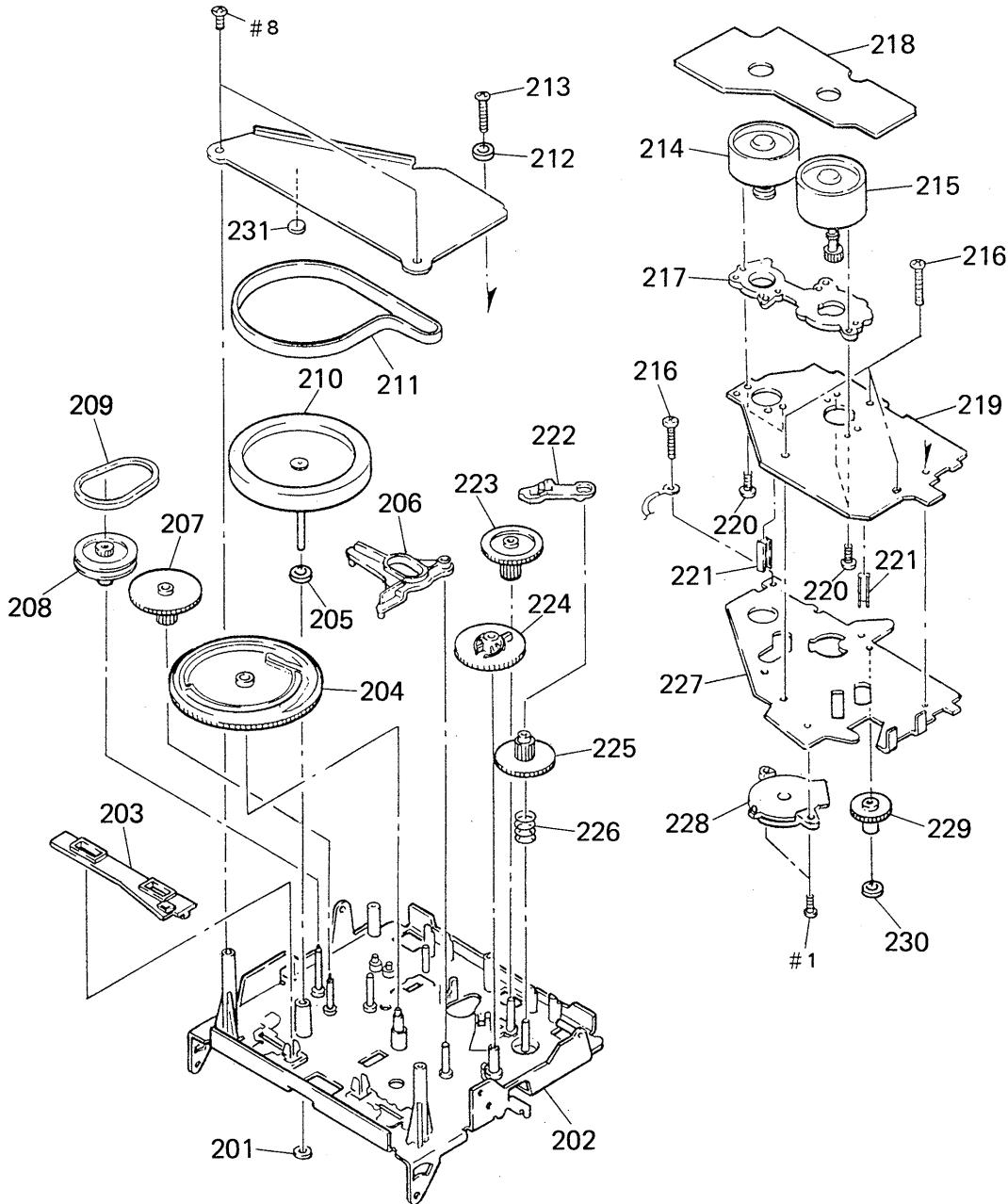
Ref. No.	Part No.	Description	Remark
111	* X-3363-554-1	LEVER (LIMITER) ASSY	
112	3-371-619-01	SPRING (LIMITER), TENSION	
113	A-2003-936-A	MOTOR (LOADING) ASSY	
114	* 3-162-496-01	CORE, SHIELD	
115	X-3363-556-1	GUIDE (R) ASSY	
116	3-371-617-01	GEAR (DRIVING)	
117	3-669-465-00	WASHER (1.5), STOPPER	
118	3-371-616-01	PULLEY (MIDWAY)	
119	3-371-620-01	BELT (LOADING)	
120	3-371-618-01	SPRING (STABILIZER), TENSION	

4-4. MECHANISM SECTION (2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-885-599-00	SCREW, FITTING, REINFORCEMENT		161	X-3356-641-1	LEVER (FR2) ASSY	
152	X-3363-546-1	MOTOR (CAPSTAN V30) ASSY		162	3-356-619-01	SPRING (B), TORSION	
153	3-371-565-01	SPRING, TORSION		163	* X-3363-542-1	LEVER (LIFTER) ASSY	
154	X-3363-547-1	SLIDER (HEAD PCB V30) ASSY		164	3-356-625-01	SPRING, TENSION	
155	3-356-659-01	SPRING (RPH), COMPRESSION		165	X-3356-649-1	LEVER (PINCH LEVER T) ASSY	
156	3-371-572-01	BRACKET (GUIDE R)		166	3-356-618-01	CAP (REEL)	
157	1-543-535-11	HEAD, MAGNETIC (ERASE)		167	3-371-630-01	SCREW (AZIMUTH), STEP	
158	1-543-733-11	HEAD, MAGNETIC (RECORD/PLAYBACK)		168	3-371-631-01	SCREW (LIFTER), STEP	
159	3-356-614-01	SLIDER (BRAKE)		169	X-3356-628-1	GEAR (S) ASSY	
160	3-669-465-11	WASHER (1.5), STOPPER		170	X-3356-627-1	GEAR (T) ASSY	

4-5. MECHANISM SECTION (3)



Ref. No.	Part No.	Description	Remark
201	3-356-713-01	WASHER	
202	* X-3363-544-1	CHASSIS (V30) COMPLETE ASSY, MECH	
203	3-356-653-01	SLIDER (PAUSE)	
204	3-356-747-01	GEAR (MODE CAM C)	
205	3-356-705-01	WASHER (CAPSTAN)	
206	3-356-613-01	LEVER (MODE)	
207	3-356-606-01	GEAR (MODE)	
208	3-356-607-01	PULLEY (MODE)	
209	3-356-603-01	BELT (MODE)	
210	X-3356-642-1	FLYWHEEL (R FWD) ASSY	
211	3-371-571-01	BELT (CAPSTAN)	
212	* 3-356-718-01	SPACER (THRUST RETAINER R)	
213	3-356-707-01	SCREW (+PTPWH 2X25)	
214	X-3356-604-1	MOTOR (ASSIST) ASSY	
215	X-3356-638-1	MOTOR (REEL R) ASSY	

Ref. No.	Part No.	Description	Remark
216	3-355-801-01	SCREW (BTP 2X18)	
217	* 3-356-628-01	SPACER (MOTOR)	
218	* 1-632-741-11	PC BOARD, REEL MOTOR	
219	* 1-632-740-11	PC BOARD, MD	
220	3-363-804-01	SCREW (+P 2.6X6.5)	
221	3-356-631-03	HOLDER (SENSOR)	
222	3-356-617-01	LEVER (SELECTION)	
223	3-356-703-01	GEAR (COMMUNICATION C)	
224	3-356-616-01	GEAR (LOADING CAM)	
225	3-356-609-01	GEAR (LOADING)	
226	3-356-605-01	SPRING, COMPRESSION	
227	* X-3356-602-1	BRACKET (MOTOR R) ASSY	
228	1-466-238-11	ENCODER, ROTARY	
229	3-356-702-01	GEAR (COMMUNICATION B)	
230	3-669-465-00	WASHER (1.5), STOPPER	
231	3-371-570-01	SPACER (THRUST RETAINER)	

SECTION 5

ELECTRICAL PARTS LIST

AUDIO SYSCON

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- **RESISTORS**
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal Oxide-film resistor
F : nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

● SEMICONDUCTORS

In each case, u: μ , for example:
uA....: μ A...., uPA....: μ PA....
uPB....: μ PB...., uPC....: μ PC....
uPD....: μ PD....

● CAPACITORS

uF: μ F

● COILS

uH: μ H

The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		* A-2006-578-A AUDIO SYSCON BOARD, COMPLETE		C144	1-163-257-91	CERAMIC CHIP 180PF	5% 50V
		*****		C145	1-136-935-11	FILM 22PF	5% 630V
		* 1-562-327-00 SOCKET, CONNECTOR 3P		C161	1-123-382-00	ELECT 3.3uF	20% 100V
		1-690-123-61 REED (WITH CONNECTOR) (2 CORE)		C181	1-163-021-91	CERAMIC CHIP 0.01uF	10% 50V
		* 3-356-925-01 HEAT SINK		C182	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V
		7-682-547-04 SCREW +BVTT 3X6 (S)		C183	1-163-038-00	CERAMIC CHIP 0.1uF	25V
		< CAPACITOR >		C184	1-136-803-11	FILM 560PF	5% 630V
C101	1-126-059-11	ELECT 10uF	20% 50V	C185	1-136-433-11	FILM 100PF	5% 630V
C102	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V	C186	1-163-135-00	CERAMIC CHIP 560PF	5% 50V
C103	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V	C201	1-126-059-11	ELECT 10uF	20% 50V
C104	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V	C202	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V
C105	1-137-195-91	FILM 0.56uF	5% 50V	C203	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V
C106	1-136-171-00	FILM 0.33uF	5% 50V	C204	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V
C107	1-126-059-11	ELECT 10uF	20% 50V	C205	1-137-195-91	FILM 0.56uF	5% 50V
C108	1-124-657-00	ELECT 10uF	20% 50V	C206	1-136-171-00	FILM 0.33uF	5% 50V
C121	1-163-127-00	CERAMIC CHIP 270PF	5% 50V	C207	1-126-059-11	ELECT 10uF	20% 50V
C122	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C208	1-124-657-00	ELECT 10uF	20% 50V
C123	1-163-157-00	FILM 0.022uF	5% 50V	C221	1-163-127-00	CERAMIC CHIP 270PF	5% 50V
C124	1-124-657-00	ELECT 10uF	20% 50V	C222	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C125	1-163-986-00	CERAMIC CHIP 0.027uF	10% 25V	C223	1-163-157-00	FILM 0.022uF	5% 50V
C126	1-164-693-11	CERAMIC CHIP 0.0018uF	5% 50V	C224	1-124-657-00	ELECT 10uF	20% 50V
C127	1-163-239-91	CERAMIC CHIP 33PF	5% 50V	C225	1-163-986-00	CERAMIC CHIP 0.027uF	10% 25V
C128	1-164-693-11	CERAMIC CHIP 0.0018uF	5% 50V	C226	1-164-693-11	CERAMIC CHIP 0.0018uF	5% 50V
C129	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V	C227	1-163-239-91	CERAMIC CHIP 33PF	5% 50V
C131	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V	C228	1-164-693-11	CERAMIC CHIP 0.0018uF	5% 50V
C132	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V	C229	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V
C133	1-137-195-91	FILM 0.56uF	5% 50V	C231	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V
C134	1-136-171-00	FILM 0.33uF	5% 50V	C232	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V
C135	1-124-657-00	ELECT 10uF	20% 50V	C233	1-137-195-91	FILM 0.56uF	5% 50V
C141	1-126-044-11	ELECT 1uF	20% 50V	C234	1-136-171-00	FILM 0.33uF	5% 50V
C142	1-126-059-11	ELECT 10uF	20% 50V	C235	1-124-657-00	ELECT 10uF	20% 50V
C143	1-126-059-11	ELECT 10uF	20% 50V	C241	1-126-044-11	ELECT 1uF	20% 50V
				C242	1-126-059-11	ELECT 10uF	20% 50V
				C243	1-126-059-11	ELECT 10uF	20% 50V
				C244	1-163-257-91	CERAMIC CHIP 180PF	5% 50V

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark			
C245	1-136-935-11	FILM	22PF	5%	630V	C802	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C261	1-123-382-00	ELECT	3.3uF	20%	100V	C803	1-163-275-91	CERAMIC CHIP 0.001uF	5% 50V	
C281	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	C804	1-163-275-91	CERAMIC CHIP 0.001uF	5% 50V	
C282	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	C805	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C283	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C806	1-124-477-11	ELECT	47uF 20%	25V
C284	1-136-803-11	FILM	560PF	5%	630V	C807	1-126-176-11	ELECT	220uF 20%	10V
C285	1-136-433-11	FILM	100PF	5%	630V	C808	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C286	1-163-135-00	CERAMIC CHIP	560PF	5%	50V	C809	1-124-927-11	ELECT	4.7uF 20%	100V
C501	1-126-022-11	ELECT	47uF	20%	25V	C810	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C502	1-126-022-11	ELECT	47uF	20%	25V	C811	1-124-477-11	ELECT	47uF 20%	25V
C503	1-124-903-11	ELECT	1uF	20%	50V	C901	1-164-505-11	CERAMIC CHIP 2.2uF	16V	
C521	1-124-994-11	ELECT	100uF	20%	10V	C902	1-163-275-91	CERAMIC CHIP 0.001uF	5% 50V	
C522	1-124-994-11	ELECT	100uF	20%	10V	C903	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C531	1-126-022-11	ELECT	47uF	20%	25V	C904	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C532	1-126-022-11	ELECT	47uF	20%	25V	C905	1-164-505-11	CERAMIC CHIP 2.2uF	16V	
C533	1-124-903-11	ELECT	1uF	20%	50V	C906	1-164-505-11	CERAMIC CHIP 2.2uF	16V	
C541	1-124-903-11	ELECT	1uF	20%	50V					
C542	1-126-233-11	ELECT	22uF	20%	50V					
C563	1-163-245-11	CERAMIC CHIP	56PF	5%	50V					
C564	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	CNP501	* 1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P		
C566	1-163-245-11	CERAMIC CHIP	56PF	5%	50V	CNP503	* 1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P		
C567	1-124-927-11	ELECT	4.7uF	20%	100V	CNP521	* 1-560-062-00	PIN, CONNECTOR 4P		
C568	1-164-505-11	CERAMIC CHIP	2.2uF		16V	CNP541	* 1-560-062-00	PIN, CONNECTOR 4P		
C583	1-124-902-00	ELECT	0.47uF	20%	50V	CNP581	* 1-560-060-00	PIN, CONNECTOR 2P		
C584	1-126-022-11	ELECT	47uF	20%	25V					
C585	1-126-022-11	ELECT	47uF	20%	25V	CNP701	* 1-564-513-11	PLUG, CONNECTOR 10P		
C586	1-136-253-11	FILM	0.0018uF	5%	100V	CNP702	* 1-580-230-31	PIN, CONNECTOR (PC BOARD) 3P		
C587	1-136-253-11	FILM	0.0018uF	5%	100V	CNP704	1-568-226-11	PIN, CONNECTOR 2P		
C588	1-136-233-11	FILM	0.0047uF	5%	100V	CNP801	* 1-564-340-00	PIN, CONNECTOR 6P		
C589	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	CNP802	* 1-564-342-61	PIN, CONNECTOR 8P		
C590	1-124-907-11	ELECT	10uF	20%	50V	CNP803	* 1-506-503-71	PIN, CONNECTOR 9P		
C591	1-107-045-00	MICA	3.9PF		500V	CNP804	* 1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P		
C592	1-136-558-11	FILM	0.0039uF	5%	630V	CNP805	1-580-767-11	PIN, CONNECTOR (PC BOARD) 10P		
C701	1-124-556-11	ELECT	2200uF	20%	16V	CNP901	1-506-468-11	CONNECTOR 3P, MALE		
C702	1-124-556-11	ELECT	2200uF	20%	16V					
C703	1-124-994-11	ELECT	100uF	20%	10V					
C704	1-124-994-11	ELECT	100uF	20%	10V	D161	8-719-988-62	DIODE	ISS355	
C705	1-124-997-11	ELECT	470uF	20%	10V	D261	8-719-988-62	DIODE	ISS355	
C706	1-124-907-11	ELECT	10uF	20%	50V	D501	8-719-988-62	DIODE	ISS355	
C707	1-126-936-11	ELECT	3300uF	20%	16V	D541	8-719-988-62	DIODE	ISS355	
C709	1-124-907-11	ELECT	10uF	20%	50V	D542	8-719-988-62	DIODE	ISS355	
C710	1-124-471-00	ELECT	1000uF	20%	6.3V	D543	8-719-988-62	DIODE	ISS355	
C711	1-124-564-11	ELECT	4700uF	20%	25V	D544	8-719-988-62	DIODE	ISS355	
C712	1-124-907-11	ELECT	10uF	20%	50V	D561	8-719-988-62	DIODE	ISS355	
C713	1-124-360-00	ELECT	1000uF	20%	16V	D582	8-719-988-62	DIODE	ISS355	
C714	1-124-122-11	ELECT	100uF	20%	50V	D583	8-719-988-62	DIODE	ISS355	
C715	1-163-038-00	CERAMIC CHIP	0.1uF		25V	D584	8-719-988-62	DIODE	ISS355	
C716	1-124-910-11	ELECT	47uF	20%	50V	D701	8-719-200-77	DIODE	10E2N	
C717	1-161-744-00	CERAMIC	0.01uF		400V	D702	8-719-200-77	DIODE	10E2N	
C801	1-163-038-00	CERAMIC CHIP	0.1uF		25V	D703	8-719-200-77	DIODE	10E2N	
						D704	8-719-200-77	DIODE	10E2N	

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D705	8-719-933-33	DIODE	HZS6A1L	JR562	1-216-296-00	METAL CHIP	0 5% 1/8W
D706	8-719-933-33	DIODE	HZS6A1L	JR701	1-216-296-00	METAL CHIP	0 5% 1/8W
D707	8-719-312-09	DIODE	RBA-402	JR802	1-216-295-00	METAL CHIP	0 5% 1/10W
D711	8-719-988-62	DIODE	1SS355	JR803	1-216-295-00	METAL CHIP	0 5% 1/10W
D712	8-719-210-39	DIODE	EC10QS-04	JR804	1-216-295-00	METAL CHIP	0 5% 1/10W
D713	8-719-933-43	DIODE	HZS7A1L	JR901	1-216-295-00	METAL CHIP	0 5% 1/10W
D714	8-719-001-70	DIODE	UZL-12M1	JR902	1-216-296-00	METAL CHIP	0 5% 1/8W
D715	8-719-210-33	DIODE	EC10DS2	JR903	1-216-295-00	METAL CHIP	0 5% 1/10W
D716	8-719-210-33	DIODE	EC10DS2	JR904	1-216-296-00	METAL CHIP	0 5% 1/8W
D717	8-719-000-93	DIODE	UZL-7H1	< COIL >			
D801	8-719-988-62	DIODE	1SS355	L121	1-410-778-11	INDUCTOR	18mH
D802	8-719-988-62	DIODE	1SS355	L141	1-410-780-11	INDUCTOR	27mH
D803	8-719-988-62	DIODE	1SS355	L221	1-410-778-11	INDUCTOR	18mH
D805	8-719-210-33	DIODE	EC10DS2	L241	1-410-780-11	INDUCTOR	27mH
D806	8-719-933-33	DIODE	HZS6A1L	< FILTER >			
D807	8-719-933-33	DIODE	HZS6A1L	LPF101	1-236-147-11	FILTER, LOW PASS	
D901	8-719-301-44	DIODE	SEL2410E-D	LPF201	1-236-147-11	FILTER, LOW PASS	
< INDICATOR >				< TRANSISTOR >			
< IC >				Q101	8-729-805-41	TRANSISTOR	2SC3398
IC501	8-752-037-90	IC	CXA1331M	Q102	8-729-921-73	TRANSISTOR	2SD1781K-QR
IC502	8-759-516-47	IC	CD4066BCM	Q121	8-729-805-40	TRANSISTOR	2SC3900
IC521	8-759-111-44	IC	uPC4570C-1	Q141	8-729-921-73	TRANSISTOR	2SD1781K-QR
IC531	8-752-037-90	IC	CXA1331M	Q201	8-729-805-41	TRANSISTOR	2SC3398
IC541	8-752-038-02	IC	CXA1198AP	Q202	8-729-921-73	TRANSISTOR	2SD1781K-QR
IC561	8-759-981-95	IC	RC4558S	Q221	8-729-805-40	TRANSISTOR	2SC3900
IC562	8-759-981-95	IC	RC4558S	Q241	8-729-921-73	TRANSISTOR	2SD1781K-QR
IC581	8-759-106-56	IC	uPC1297CA	Q501	8-729-805-41	TRANSISTOR	2SC3398
IC701	8-759-981-95	IC	RC4558S	Q502	8-729-805-65	TRANSISTOR	2SA1344
IC801	8-759-637-18	IC	M50964-255FP	Q503	8-729-805-65	TRANSISTOR	2SA1344
IC802	8-759-822-09	IC	LB1641	Q504	8-729-805-65	TRANSISTOR	2SA1344
IC803	8-759-973-95	IC	BA6219B	Q541	8-729-805-45	TRANSISTOR	2SC3395
IC804	8-759-516-49	IC	CD4069BCM-FL63	Q542	8-729-805-45	TRANSISTOR	2SC3395
IC805	8-759-822-09	IC	LB1641	Q543	8-729-805-45	TRANSISTOR	2SC3395
IC901	8-759-637-17	IC	M50940-334FP	Q561	8-729-602-36	TRANSISTOR	2SA1602
IC902	8-741-100-48	IC	SBX1610-59	Q581	8-729-821-04	TRANSISTOR	2SA1317-STU
< JACK >				Q582	8-729-805-41	TRANSISTOR	2SC3398
< JUMPER >				Q583	8-729-805-41	TRANSISTOR	2SC3398
J501 1-573-070-11 JACK, PIN 4P (LINE IN/OUT)				Q584	8-729-805-41	TRANSISTOR	2SC3398
JR131 1-216-296-00 METAL CHIP 0 5% 1/8W				Q585	8-729-194-57	TRANSISTOR	2SC945-P
JR141 1-216-296-00 METAL CHIP 0 5% 1/8W				Q586	8-729-194-57	TRANSISTOR	2SC945-P
JR231 1-216-296-00 METAL CHIP 0 5% 1/8W				Q701	8-729-924-90	TRANSISTOR	2SB1370-EF
JR241 1-216-296-00 METAL CHIP 0 5% 1/8W				Q702	8-729-111-55	TRANSISTOR	2SD1312K
JR561 1-216-296-00 METAL CHIP 0 5% 1/8W				Q703	8-729-602-21	TRANSISTOR	2SC4154
JR561 1-216-296-00 METAL CHIP 0 5% 1/8W				Q704	8-729-111-55	TRANSISTOR	2SD1312K
JR561 1-216-296-00 METAL CHIP 0 5% 1/8W				Q705	8-729-924-90	TRANSISTOR	2SB1370-EF
JR561 1-216-296-00 METAL CHIP 0 5% 1/8W				Q706	8-729-602-21	TRANSISTOR	2SC4154

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	
Q707	8-729-602-36	TRANSISTOR	2SA1602	R146	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	
Q708	8-729-140-04	TRANSISTOR	2SB1116A-L	R161	1-216-086-00	METAL GLAZE	36K 5% 1/10W	
Q801	8-729-602-36	TRANSISTOR	2SA1602	R162	1-216-086-00	METAL GLAZE	36K 5% 1/10W	
Q802	8-729-602-36	TRANSISTOR	2SA1602	R163	1-216-088-00	METAL CHIP	43K 5% 1/10W	
Q803	8-729-602-36	TRANSISTOR	2SA1602	R164	1-249-409-11	CARBON	220 5% 1/4W	
Q804	8-729-805-65	TRANSISTOR	2SA1344	R181	1-216-079-00	METAL CHIP	18K 5% 1/10W	
Q805	8-729-805-65	TRANSISTOR	2SA1344	R182	1-216-085-00	METAL CHIP	33K 5% 1/10W	
Q806	8-729-805-65	TRANSISTOR	2SA1344	R183	1-216-001-00	METAL CHIP	10 5% 1/10W	
Q807	8-729-805-65	TRANSISTOR	2SA1344	R184	1-216-101-00	METAL CHIP	150K 5% 1/10W	
Q808	8-729-805-65	TRANSISTOR	2SA1344	R201	1-249-433-11	CARBON	22K 5% 1/4W	
Q811	8-729-602-21	TRANSISTOR	2SC4154	R202	1-216-105-00	METAL CHIP	220K 5% 1/10W	
Q812	8-729-602-21	TRANSISTOR	2SC4154	R204	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	
Q901	8-729-805-65	TRANSISTOR	2SA1344	R205	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	
Q902	8-729-805-65	TRANSISTOR	2SA1344	R206	1-216-082-00	METAL GLAZE	24K 5% 1/10W	
Q903	8-729-805-65	TRANSISTOR	2SA1344	R207	1-216-043-00	METAL CHIP	560 5% 1/10W	
Q904	8-729-805-65	TRANSISTOR	2SA1344	R208	1-216-097-00	METAL CHIP	100K 5% 1/10W	
Q905	8-729-805-65	TRANSISTOR	2SA1344	R209	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	
Q907	8-729-805-65	TRANSISTOR	2SA1344	R210	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	
< RESISTOR >					R211	1-216-073-00	METAL CHIP	10K 5% 1/10W
R101	1-249-433-11	CARBON	22K 5% 1/4W	R212	1-249-417-11	CARBON	1K 5% 1/4W	
R102	1-216-105-00	METAL CHIP	220K 5% 1/10W	R213	1-216-049-00	METAL CHIP	1K 5% 1/10W	
R104	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R221	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R105	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	R222	1-216-025-00	METAL CHIP	100 5% 1/10W	
R106	1-216-082-00	METAL GLAZE	24K 5% 1/10W	R223	1-216-100-00	METAL GLAZE	130K 5% 1/10W	
R107	1-216-043-00	METAL CHIP	560 5% 1/10W	R224	1-216-067-00	METAL CHIP	5.6K 5% 1/10W	
R108	1-216-097-00	METAL CHIP	100K 5% 1/10W	R225	1-216-055-00	METAL CHIP	1.8K 5% 1/10W	
R109	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R226	1-216-056-00	METAL GLAZE	2K 5% 1/10W	
R110	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R227	1-216-105-00	METAL CHIP	220K 5% 1/10W	
R111	1-216-073-00	METAL CHIP	10K 5% 1/10W	R228	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	
R112	1-249-417-11	CARBON	1K 5% 1/4W	R229	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	
R113	1-216-049-00	METAL CHIP	1K 5% 1/10W	R234	1-216-082-00	METAL GLAZE	24K 5% 1/10W	
R121	1-216-097-00	METAL CHIP	100K 5% 1/10W	R235	1-216-043-00	METAL CHIP	560 5% 1/10W	
R122	1-216-025-00	METAL CHIP	100 5% 1/10W	R237	1-216-097-00	METAL CHIP	100K 5% 1/10W	
R123	1-216-100-00	METAL GLAZE	130K 5% 1/10W	R241	1-216-067-00	METAL CHIP	5.6K 5% 1/10W	
R124	1-216-067-00	METAL CHIP	5.6K 5% 1/10W	R242	1-216-058-00	METAL GLAZE	2.4K 5% 1/10W	
R125	1-216-055-00	METAL CHIP	1.8K 5% 1/10W	R243	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	
R126	1-216-056-00	METAL GLAZE	2K 5% 1/10W	R244	1-216-073-00	METAL CHIP	10K 5% 1/10W	
R127	1-216-105-00	METAL CHIP	220K 5% 1/10W	R245	1-216-073-00	METAL CHIP	10K 5% 1/10W	
R128	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R246	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	
R129	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R261	1-216-086-00	METAL GLAZE	36K 5% 1/10W	
R134	1-216-082-00	METAL GLAZE	24K 5% 1/10W	R262	1-216-086-00	METAL GLAZE	36K 5% 1/10W	
R135	1-216-043-00	METAL CHIP	560 5% 1/10W	R263	1-216-088-00	METAL CHIP	43K 5% 1/10W	
R137	1-216-097-00	METAL CHIP	100K 5% 1/10W	R264	1-249-409-11	CARBON	220 5% 1/4W	
R141	1-216-067-00	METAL CHIP	5.6K 5% 1/10W	R281	1-216-079-00	METAL CHIP	18K 5% 1/10W	
R142	1-216-058-00	METAL GLAZE	2.4K 5% 1/10W	R282	1-216-085-00	METAL CHIP	33K 5% 1/10W	
R143	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R283	1-216-001-00	METAL CHIP	10 5% 1/10W	
R144	1-216-073-00	METAL CHIP	10K 5% 1/10W	R284	1-216-101-00	METAL CHIP	150K 5% 1/10W	
R145	1-216-073-00	METAL CHIP	10K 5% 1/10W	R501	1-216-049-00	METAL CHIP	1K 5% 1/10W	
				R502	1-215-455-00	METAL	27K 1% 1/6W	

AUDIO SYSCON

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R503	1-216-089-00	METAL CHIP	47K 5% 1/10W	R618	1-216-104-00	METAL CHIP	200K 5% 1/10W
R504	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R701	1-249-426-11	CARBON	5.6K 5% 1/4W
R505	1-216-081-00	METAL CHIP	22K 5% 1/10W	R702	1-249-425-11	CARBON	4.7K 5% 1/4W
R521	1-247-704-11	CARBON	220 5% 1/4W	R703	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
R522	1-247-704-11	CARBON	220 5% 1/4W	R704	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R531	1-216-049-00	METAL CHIP	1K 5% 1/10W	R705	1-216-073-00	METAL CHIP	10K 5% 1/10W
R532	1-215-455-00	METAL	27K 1% 1/6W	R706	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R533	1-249-409-11	CARBON	220 5% 1/4W	R707	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
R541	1-216-097-00	METAL CHIP	100K 5% 1/10W	R708	1-249-425-11	CARBON	4.7K 5% 1/4W
R542	1-216-049-00	METAL CHIP	1K 5% 1/10W	R709	1-216-033-00	METAL CHIP	220 5% 1/10W
R543	1-215-454-00	METAL	24K 1% 1/6W	R710	1-216-049-00	METAL CHIP	1K 5% 1/10W
R544	1-216-081-00	METAL CHIP	22K 5% 1/10W	R711	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
R563	1-216-097-00	METAL CHIP	100K 5% 1/10W	R712	▲ 1-219-137-11	FUSIBLE	0.33 10% 1/4W
R564	1-216-073-00	METAL CHIP	10K 5% 1/10W	R713	▲ 1-219-135-11	FUSIBLE	0.15 10% 1/4W
R565	1-216-097-00	METAL CHIP	100K 5% 1/10W	R714	1-249-417-11	CARBON	1K 5% 1/4W
R566	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	R715	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R567	1-216-097-00	METAL CHIP	100K 5% 1/10W	R716	1-249-425-11	CARBON	4.7K 5% 1/4W
R568	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R717	1-249-437-11	CARBON	47K 5% 1/4W
R569	1-216-097-00	METAL CHIP	100K 5% 1/10W	R718	1-216-081-00	METAL CHIP	22K 5% 1/10W
R570	1-216-073-00	METAL CHIP	10K 5% 1/10W	R719	1-216-084-00	METAL CHIP	30K 5% 1/10W
R571	1-216-073-00	METAL CHIP	10K 5% 1/10W	R720	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R572	1-216-049-00	METAL CHIP	1K 5% 1/10W	R801	▲ 1-212-952-00	FUSIBLE	5.6 5% 1/2W F
R581	1-216-073-00	METAL CHIP	10K 5% 1/10W	R802	▲ 1-212-954-11	FUSIBLE	6.8 5% 1/2W F
R582	1-216-073-00	METAL CHIP	10K 5% 1/10W	R803	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
R583	1-216-055-00	METAL CHIP	1.8K 5% 1/10W	R804	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R584	1-216-066-00	METAL CHIP	5.1K 5% 1/10W	R805	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R585	1-216-085-00	METAL CHIP	33K 5% 1/10W	R806	1-216-073-00	METAL CHIP	10K 5% 1/10W
R586	1-216-066-00	METAL CHIP	5.1K 5% 1/10W	R807	1-216-072-00	METAL CHIP	9.1K 5% 1/10W
R587	1-216-095-00	METAL CHIP	82K 5% 1/10W	R808	1-216-068-00	METAL CHIP	6.2K 5% 1/10W
R588	1-216-095-00	METAL CHIP	82K 5% 1/10W	R809	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R589	1-249-390-11	CARBON	5.6 5% 1/6W	R810	1-216-105-00	METAL CHIP	220K 5% 1/10W
R590	1-249-390-11	CARBON	5.6 5% 1/6W	R811	1-216-105-00	METAL CHIP	220K 5% 1/10W
R601	1-216-094-00	METAL GLAZE	75K 5% 1/10W	R812	1-216-748-11	METAL CHIP	39K 1% 1/10W
R602	1-216-085-00	METAL CHIP	33K 5% 1/10W	R813	1-216-748-11	METAL CHIP	39K 1% 1/10W
R603	1-216-088-00	METAL CHIP	43K 5% 1/10W	R814	1-216-089-00	METAL CHIP	47K 5% 1/10W
R604	1-216-093-00	METAL CHIP	68K 5% 1/10W	R815	1-216-089-00	METAL CHIP	47K 5% 1/10W
R605	1-216-096-00	METAL GLAZE	91K 5% 1/10W	R816	1-216-089-00	METAL CHIP	47K 5% 1/10W
R606	1-216-081-00	METAL CHIP	22K 5% 1/10W	R817	1-216-089-00	METAL CHIP	47K 5% 1/10W
R607	1-216-093-00	METAL CHIP	68K 5% 1/10W	R818	1-216-089-00	METAL CHIP	47K 5% 1/10W
R608	1-216-089-00	METAL CHIP	47K 5% 1/10W	R819	1-216-089-00	METAL CHIP	47K 5% 1/10W
R609	1-216-097-00	METAL CHIP	100K 5% 1/10W	R820	1-216-089-00	METAL CHIP	47K 5% 1/10W
R610	1-216-092-00	METAL GLAZE	62K 5% 1/10W	R821	▲ 1-212-952-00	FUSIBLE	5.6 5% 1/2W F
R611	1-216-096-00	METAL GLAZE	91K 5% 1/10W	R822	1-216-067-00	METAL CHIP	5.6K 5% 1/10W
R612	1-216-105-00	METAL CHIP	220K 5% 1/10W	R823	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R613	1-216-094-00	METAL GLAZE	75K 5% 1/10W	R825	1-216-081-00	METAL CHIP	22K 5% 1/10W
R614	1-216-090-00	METAL CHIP	51K 5% 1/10W	R826	1-216-075-00	METAL CHIP	12K 5% 1/10W
R615	1-216-104-00	METAL CHIP	200K 5% 1/10W	R827	1-216-085-00	METAL CHIP	33K 5% 1/10W
R616	1-216-092-00	METAL GLAZE	62K 5% 1/10W	R828	1-216-090-00	METAL CHIP	51K 5% 1/10W
R617	1-216-092-00	METAL GLAZE	62K 5% 1/10W	R829	1-216-073-00	METAL CHIP	10K 5% 1/10W

Note: The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

AUDIO SYSCON

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R830	1-216-085-00	METAL CHIP	33K	5%	1/10W	R923	1-216-025-00	METAL CHIP	100	5%	1/10W
R831	1-216-121-00	METAL CHIP	1M	5%	1/10W	R924	1-216-025-00	METAL CHIP	100	5%	1/10W
R832	1-216-089-00	METAL CHIP	47K	5%	1/10W	R925	1-216-025-00	METAL CHIP	100	5%	1/10W
R833	1-216-085-00	METAL CHIP	33K	5%	1/10W	R926	1-216-025-00	METAL CHIP	100	5%	1/10W
R834	1-216-085-00	METAL CHIP	33K	5%	1/10W	R927	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R835	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	R928	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R836	1-216-049-00	METAL CHIP	1K	5%	1/10W	R929	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R837	1-216-089-00	METAL CHIP	47K	5%	1/10W	R930	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R838	1-216-089-00	METAL CHIP	47K	5%	1/10W	R932	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R839	1-216-089-00	METAL CHIP	47K	5%	1/10W	< VARIABLE RESISTOR >					
R840	△ 1-212-942-00	FUSIBLE	2.2	5%	1/2W F	RV121	1-237-458-21	RES, ADJ, CARBON 5K (PB LEVEL)	RV241	1-237-460-11	RES, ADJ, CARBON 20K (REC GAIN)
R841	1-216-025-00	METAL CHIP	100	5%	1/10W	RV141	1-237-460-11	RES, ADJ, CARBON 20K (REC GAIN)	RV281	1-238-601-11	RES, ADJ, CARBON 22K (BIAS)
R842	1-216-025-00	METAL CHIP	100	5%	1/10W	RV181	1-238-601-11	RES, ADJ, CARBON 22K (BIAS)	RV221	1-237-458-21	RES, ADJ, CARBON 5K (PB LEVEL)
R843	1-216-025-00	METAL CHIP	100	5%	1/10W	RV501	1-241-615-11	RES, VAR, CARBON 50K/50K (REC LEVEL)	RV502	1-241-616-11	RES, VAR, CARBON 50K/50K (BALANCE)
R844	1-216-025-00	METAL CHIP	100	5%	1/10W	< SWITCH >					
R845	1-216-025-00	METAL CHIP	100	5%	1/10W	S701	△ 1-572-267-51	SWITCH, PUSH (AC POWER) (1 KEY)	S902	1-554-303-21	SWITCH, TACTILE (MEMORY)
R846	1-216-089-00	METAL CHIP	47K	5%	1/10W	S801	1-572-859-11	SWITCH, SLIDE (MPX FILTER)	S903	1-554-303-21	SWITCH, TACTILE (TAPE/SOURCE)
R847	1-216-089-00	METAL CHIP	47K	5%	1/10W	S802	1-572-143-11	SWITCH, SLIDE (OUT DETECT)	S904	1-554-303-21	SWITCH, TACTILE (▷)
R848	1-216-089-00	METAL CHIP	47K	5%	1/10W	S803	1-572-143-11	SWITCH, SLIDE (IN DETECT)	S905	1-554-303-21	SWITCH, TACTILE (II)
R849	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	S901	1-554-303-21	SWITCH, TACTILE (RESET)	S906	1-554-303-21	SWITCH, TACTILE (◎)
R850	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	S907	1-554-303-21	SWITCH, TACTILE (△)	S908	1-554-303-21	SWITCH, TACTILE (□)
R851	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	S909	1-554-303-21	SWITCH, TACTILE (◁)	S910	1-554-303-21	SWITCH, TACTILE (▷▷)
R852	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	S911	1-554-303-21	SWITCH, TACTILE (●)	S912	1-570-835-11	SWITCH, SLIDE (DOLBY NR)
R853	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	< TRANSFORMER >					
R854	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	T181	1-433-344-11	TRANSFORMER, BIAS OSCILLATION	T281	1-433-344-11	TRANSFORMER, BIAS OSCILLATION
R855	1-216-089-00	METAL CHIP	47K	5%	1/10W	T581	1-433-343-11	TRANSFORMER, BIAS OSCILLATION	< TEST PIN >		
R856	1-216-062-00	METAL CHIP	3.6K	5%	1/10W	TP581	* 1-564-506-11	PLUG, CONNECTOR 3P	TP801	* 1-564-506-11	PLUG, CONNECTOR 3P
R901	1-216-097-00	METAL CHIP	100K	5%	1/10W	TP802	* 1-564-505-11	PLUG, CONNECTOR 2P	TP803	* 1-564-505-11	PLUG, CONNECTOR 2P
R902	1-216-097-00	METAL CHIP	100K	5%	1/10W	Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.					
R903	1-216-097-00	METAL CHIP	100K	5%	1/10W						
R904	1-216-097-00	METAL CHIP	100K	5%	1/10W						
R905	1-216-097-00	METAL CHIP	100K	5%	1/10W						
R906	1-216-121-00	METAL CHIP	1M	5%	1/10W						
R907	1-249-408-11	CARBON	180	5%	1/4W						
R908	1-216-059-00	METAL CHIP	2.7K	5%	1/10W						
R909	1-216-063-00	METAL CHIP	3.9K	5%	1/10W						
R910	1-216-059-00	METAL CHIP	2.7K	5%	1/10W						
R911	1-216-063-00	METAL CHIP	3.9K	5%	1/10W						
R912	1-216-059-00	METAL CHIP	2.7K	5%	1/10W						
R913	1-216-063-00	METAL CHIP	3.9K	5%	1/10W						
R914	1-216-071-00	METAL CHIP	8.2K	5%	1/10W						
R915	1-216-083-00	METAL CHIP	27K	5%	1/10W						
R916	1-216-059-00	METAL CHIP	2.7K	5%	1/10W						
R917	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R918	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R919	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R920	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R921	1-216-085-00	METAL CHIP	33K	5%	1/10W						
R922	1-216-025-00	METAL CHIP	100	5%	1/10W						

AUDIO SYSCON **MD** **REEL MOTOR**
Ref. No. **Part No.** **Description** **Remark**

< VIBRATOR, CERAMIC >

X801 1-577-358-21 VIBRATOR, CERAMIC (4MHz)
X901 1-577-358-21 VIBRATOR, CERAMIC (4MHz)

* 1-632-740-11 MD BOARD

3-356-631-01 HOLDER (SENSOR)

< CONNECTOR >

CN1001 1-506-615-11 PIN, CONNECTOR 9P
CN1002 1-564-501-11 PIN, CONNECTOR 8P

< IC >

IC1001 8-749-920-97 DIODE GP2S22B
IC1002 8-749-920-97 DIODE GP2S22B

< RESISTOR >

R1001 1-249-408-11 CARBON 180 5% 1/4W
R1002 1-249-408-11 CARBON 180 5% 1/4W

< SWITCH >

S1003 1-571-958-11 SWITCH, PUSH (1 KEY) (CLOSE)
S1004 1-572-126-11 SWITCH, PUSH (1 KEY) (OPEN)
S1005 1-572-125-11 SWITCH, LEAF (REC)
S1006 1-572-202-11 SWITCH, LEAF (HALF)
S1007 1-572-125-11 SWITCH, LEAF (METAL)
S1008 1-572-125-11 SWITCH, LEAF (70uS)

< CONNECTOR >

TB1001 * 1-569-066-11 PIN, CONNECTOR 5P

* 1-632-741-11 REEL MOTOR BOARD

< CAPACITOR >

C1051 1-124-907-11 ELECT 10uF 20% 50V
C1052 1-124-907-11 ELECT 10uF 20% 50V
C1053 1-164-159-11 CERAMIC 0.1uF 50V

< CONNECTOR >

CN1051 * 1-564-499-11 PIN, CONNECTOR 6P

CN1052 * 1-564-718-11 PIN, CONNECTOR (SMALL TYPE) 2P

Ref. No. **Part No.** **Description** **Remark**

MISCELLANEOUS

61 A 1-558-946-21 CORD, POWER (UK)
61 A 1-575-651-21 CORD, POWER (AEP, G)
61 A 1-590-836-11 CORD, POWER (US, Canadian)
157 1-543-535-11 HEAD, MAGNETIC (ERASE)
158 1-543-733-11 HEAD, MAGNETIC (RECORD/PLAYBACK)
228 1-466-238-11 ENCODER, ROTARY
PT701 A 1-450-631-11 TRANSFORMER, POWER (AEP, UK, G)
PT701 A 1-450-630-11 TRANSFORMER, POWER (US, Canadian)

ACCESSORIES & PACKING MATERIALS

1-558-271-11 CORD, CONNECTION
1-559-533-11 CORD, CONNECTION
* 3-371-941-01 CUSHION
* 3-371-942-01 INDIVIDUAL CARTON
* 3-704-343-01 SHEET (STANDARD), PROTECTION
3-753-815-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH,
SPANISH, PORTUGUESE) (AEP, UK)
3-753-815-41 MANUAL, INSTRUCTION (GERMAN, DUCH,
SWEDISH, ITALIAN) (AEP, G)

HARDWARE LIST

#1 7-621-255-35 SCREW +BVTT 2X5 (S)
#2 7-621-772-20 SCREW +B 2X5
#3 7-621-775-10 SCREW +B 2.6X4
#4 7-621-849-00 SCREW (BV/RING)
#5 7-682-547-04 SCREW +BVTT 3X6 (S)

#6 7-682-548-09 SCREW +BVTT 3X8 (S)
#7 7-685-106-19 SCREW +P 2X10 TYPE2 NON-SLIT
#8 7-685-132-19 SCREW +BTP 2.6X5 TYPE2 N-S
#9 7-685-133-19 SCREW +BTP 2.6X6 TYPE2 N-S

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

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